

IN THE CLAIMS

1-28 (cancelled)

29. (new) A method for authenticating a mobile station to a network, comprising:

via wireless communications with a base station A belonging to a network A, transacting with network A to obtain an encryption key K known only to network A and to the mobile station;

via wireless communications with base station A which are secured by key K, obtaining an authentication key SSD known only to network A, to the mobile station, and to a further network B;

via wireless communications with base station A, sending an authentication message to network A to be forwarded to network B, the authentication message comprising an identification number encrypted with SSD; and

if the authentication message is accepted by network B, entering into wireless communications with a base station of network B.

30. (new) A method for authenticating a mobile terminal to a network, comprising:

via wireless communications between a mobile station and a network A, transacting with the mobile station to provide it with an encryption key K known only to network A and to the mobile station;

receiving an authentication key SSD from a further network B and providing SSD to the mobile station via wireless communications which are secured by key K;

receiving from the mobile station, via wireless communications, an authentication message which comprises an identification number encrypted with SSD; and

forwarding the authentication message to network B.